

1 Attorney Docket No. 83651

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3 MULTI-HULL SURFACE VESSEL WITH DRAG REDUCTION ON LATERAL HULLS

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5 ABSTRACT OF THE DISCLOSURE

6 A marine surface vessel having a main hull and at least two  
7 lateral hulls disposed respectively on opposite sides of the main  
8 hull. The vessel includes an engine disposed in the main hull  
9 producing exhaust gas and cooling air, microbubble injectors  
10 disposed in subsurface areas of each of the lateral hulls, and  
11 conduits in fluid communication with the microbubble injectors.  
12 Upon operation of the engine, the exhaust and/or cooling air  
13 produced by the engine is directed by the conduits to the  
14 injectors to effect generation of microbubbles on the subsurface  
15 areas of the lateral hulls to occasion microbubble drag reduction  
16 on the lateral hulls.